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Substitute for form 1449A/R

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(use as many sheets as necessary)*

Sheet

1

of

1

Application Number

**Complete if Known**

10/624.332

Filing Date

July 22, 2003

First Named Inventor

David R. Hembree

### Group Art Unit

2811

**Examiner Name**

Unknown

Attorney Docket Number

3592.8US (97-0321.08/US)

## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner  
Signature**

**Date  
Considered**

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Form PTO-1449  <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  <i>(Use several sheets if necessary)</i>			Docket Number (Optional) <b>3592.8US (97-0321.08/US)</b>		Application Number <b>Not yet assigned</b>	
			Applicant <b>David R. Hembree</b>			
			Filing Date <b>July 22, 2003</b>		Group Art Unit <b>Unknown</b>	

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AR	4,024,570	05/1977	Hartmann et al.			
	4,059,467	11/1977	Mancke et al.			
	4,059,708	11/1977	Heiss, Jr. et al.			
	4,081,825	03/1978	Koopman et al.			
	4,143,456	03/1979	Inoue			
	4,264,917	04/1981	Ugon			
	4,300,153	11/1981	Hayakawa et al.			
	4,323,914	04/1982	Berndlmaier et al.			
	4,358,552	11/1982	Shinohara et al.			
	4,507,675	03/1985	Fujii et al.			
	4,602,678	07/1986	Fick			
	AR	4,628,406	12/1986	Smith et al.		

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
AR	52-77684	06/1977	Japan				
	55-128835	10/1980	Japan				
	56-4241	01/1981	Japan				
	60-94744	05/1985	Japan				
AR	60-178651	09/1985	Japan				

OTHER DOCUMENTS		(Including Author, Title, Date, Pertinent Pages, Etc.)
AR		Crum, <i>Trends in Advanced Component Technologies</i> , Electronic Packaging & Production (January 1998) pages 48-53.
AR		Lawing, <i>Vacuum Dispensing of Encapsulants for <math>\mu</math>BGA Manufacturing</i> , Electronic Packaging & Production (February 1998 ), pages 87-91.
AR		Markstein, <i>Cooling Techniques for Today's Electronics</i> , Electronic Packaging & Production (November 1997), pages 78-82.

EXAMINER <div style="text-align: center; font-size: 2em;">AR</div>	DATE CONSIDERED <div style="text-align: center; font-size: 1.5em;">06/23/04</div>
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U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AR	5,120,665	06/1992	Tsukagoshi et al.			
	5,144,747	09/1992	Eichelberger			
	5,173,764	12/1992	Higgins, III			
	5,175,613	12/1992	Barker, III et al.			
	5,182,173	01/1993	Swei			
	5,184,208	02/1993	Sakuta et al.			
	5,194,930	03/1993	Papathomas et al.			
	5,201,866	04/1993	Mok			
	5,218,759	06/1993	Juskey et al.			
	5,233,220	08/1993	Lamson et al.			
	5,239,200	08/1993	Messina et al.			
	5,249,101	09/1993	Frey et al.			
	AR	5,252,853	10/1993	Michii		

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
AR	4-157758	05/1992	Japan				

OTHER DOCUMENTS			(Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER <span style="font-size: 1.5em; vertical-align: middle;">AR</span>	DATE CONSIDERED <span style="font-size: 1.5em; vertical-align: middle;">06/23/04</span>
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<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
AR	4,642,671	02/1987	Rohsler et al.				
	4,801,998	01/1989	Okuaki				
	4,862,245	08/1989	Pashby et al.				
	4,873,615	10/1989	Grabbe				
	4,931,852	06/1990	Brown et al.				
	4,942,140	07/1990	Ontsuki et al.				
	4,961,107	10/1990	Geist et al.				
	4,984,059	01/1991	Kubota et al.				
	5,051,275	09/1991	Wong				
	5,071,787	12/1991	Mori et al.				
AR	5,081,067	01/1992	Shimizu et al.				
	5,101,465	03/1992	Murphy				
	5,108,955	04/1992	Ishida et al.				
<b>FOREIGN PATENT DOCUMENTS</b>							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
AR	62-109326	05/1987	Japan				
	62-115834	05/1987	Japan				
	62-261133	11/1987	Japan				
AR	2-306639	12/1990	Japan				
<b>OTHER DOCUMENTS</b>							
(Including Author, Title, Date, Pertinent Pages, Etc.)							
AR		Smith, <i>Packaging to Beat the Heat</i> , Semiconductor International (November 1997), pages 73-76.					
AR		Die Attach Products, Johnson Matthey Electronics, Product Data (07/01/94), 6 pages.					
AR		Product Bulletin, Dexter Electronic Materials Division (undated), 2 pages.					
EXAMINER				DATE CONSIDERED			
				<b>06/23/04</b>			
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Applicant <b>David R. Hembree</b>				Filing Date <b>July 22, 2003</b>		Group Art Unit <b>Unknown</b>	

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AR	5,286,679	02/1994	Farnworth et al.			
	5,289,346	02/1994	Carey et al.			
	5,291,064	03/1994	Kurokawa			
	5,304,842	04/1994	Farnworth et al.			
	5,311,060	05/1994	Rostoker et al.			
	5,344,795	09/1994	Hashemi et al.			
	5,358,598	10/1994	Chiu			
	5,358,904	10/1994	Murakami et al.			
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	5,371,044	12/1994	Yoshida et al.			
AR	5,378,924	01/1995	Liang			

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS		
(Including Author, Title, Date, Pertinent Pages, Etc.)		

EXAMINER <b>AR</b>	DATE CONSIDERED <b>06/23/04</b>
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(2-92)

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Form PTO-1449  <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  <i>(Use several sheets if necessary)</i>				Docket Number (Optional) <b>3592.8US (97-0321.08/US)</b>		Application Number <b>Not yet assigned</b>	
Applicant <b>David R. Hembree</b>				Filing Date <b>July 22, 2003</b>		Group Art Unit <b>Unknown</b>	

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DR	5,379,186	01/1995	Gold et al.			
	5,379,187	01/1995	Lee et al.			
	5,379,191	01/1995	Carey et al.			
	5,385,869	01/1995	Liu et al.			
	5,387,554	02/1995	Liang			
	5,394,303	02/1995	Yamaji			
	5,396,403	03/1995	Patel			
	5,432,127	07/1995	Lamson et al.			
	5,432,675	07/1995	Sorimachi et al.			
	5,434,105	07/1995	Liou			
DR	5,436,203	07/1995	Lin			

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS			(Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER <span style="font-family: cursive; font-size: 1.5em;">H. L.</span>	DATE CONSIDERED <span style="font-size: 1.5em;">06/23/04</span>
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Form PTO-1449

**INFORMATION DISCLOSURE CITATION  
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(Use several sheets if necessary)

Docket Number (Optional)

3592.8US (97-0321.08/US)

Application Number

Not yet assigned

Applicant **David R. Hembree**Filing Date **July 22, 2003**Group Art Unit **Unknown**
**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AR	5,438,216	08/1995	Juskey et al.			
	5,441,684	08/1995	Lee			
	5,450,283	09/1995	Lin et al.			
	5,455,200	10/1995	Bigler et al.			
	5,455,457	10/1995	Kurokawa			
	5,461,255	10/1995	Chan et al.			
	5,468,995	11/1995	Higgins, III			
	5,477,082	12/1995	Buckley, III et al.			
	5,488,254	01/1996	Nishimura et al.			
	5,489,538	02/1996	Rostoker et al.			
	5,489,801	02/1996	Blish, II			
AR	5,541,446	07/1996	Kierse			

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

**OTHER DOCUMENTS**

(Including Author, Title, Date, Pertinent Pages, Etc.)


EXAMINER

AR

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### U.S. PATENT DOCUMENTS


EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AK	5,552,635	09/1996	Kim et al.			
	5,579,573	12/1996	Baker et al.			
	5,594,282	01/1997	Otsuki			
	5,596,231	01/1997	Combs			
	5,598,034	01/1997	Wakefield			
	5,604,376	02/1997	Hamburgen et al.			
	5,610,442	03/1997	Schneider et al.			
	5,641,997	06/1997	Ohta et al.			
	5,652,461	07/1997	Ootsuki et al.			
	5,656,857	08/1997	Kishita			
AK	5,659,952	08/1997	Kovac et al.			

### FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

### OTHER DOCUMENTS

*(Including Author, Title, Date, Pertinent Pages, Etc.)*


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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>MR</i>	5,663,106	09/1997	Karavakis et al.			
	5,672,548	09/1997	Culnane et al.			
	5,681,757	10/1997	Hayes			
	5,701,034	12/1997	Marrs			
	5,705,851	01/1998	Mostafazadeh et al.			
	5,891,753	04/1999	Akram			
	5,898,571	04/1999	Mertol			
	5,905,638	05/1999	MacDonald, Jr. et al.			
	5,909,056	06/1999	Mertol			
	5,931,222	08/1999	Toy et al.			
<i>MR</i>	6,081,027	06/2000	Akram			

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*MR*

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DR	6,117,797	09/2000	Hembree			
	6,121,680	09/2000	Chiu et al.			
	6,229,204	05/2001	Hembree			
	6,232,152	05/2001	DiStefano et al.			
	6,249,436	06/2001	Bollesen			
	6,251,707	06/2001	Bernier et al.			
	6,432,840	08/2002	Hembree			
	6,451,709	09/2002	Hembree			
DR	6,596,565	07/2003	Hembree			

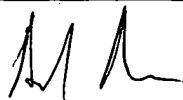
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